IN THE CLAIMS

1.   (Currently amended) A method of testing a technology based object oriented software component of a computerized application under test that allows simultaneous users over a computer network, the method comprising the steps of:

a)   providing test code automatically generated from analysis of the technology based object oriented software component that exercises said technology based object oriented software component of the application under test;

b)   synchronizing and simultaneously executing a plurality of instances of the test code, wherein said test code accesses said technology based object oriented software component of the application under test over said computer network and recording performance data on said technology based object oriented software component of the application under test;

c)   repeating step b) multiple times, with a different number of instances of the test code; and

d)   analyzing the recorded performance data to indicate a performance characteristic of said technology based object oriented software component of the application under test in response to load.

2.   Previously Cancelled

3.   (Currently amended) The method of claim 1 wherein the application under test is an object oriented language and the step of providing test code comprises providing test code to exercise one object oriented software component of the application.

4.   (Original) The method of claim 1 wherein the step of synchronizing comprises starting each instance of the test code at the same time.

5.   (Original) The method of claim 1 wherein the step of synchronizing and executing comprises executing a portion of the plurality of instances of test code on a first computer and a portion of the plurality of instance of test code on a second computer connected to the network.

6.   (Original) The method of claim 1 wherein the step of analyzing includes preparing a graphical display having as an independent variable the number of instances of the test code and the dependent variable is the performance data.

7.   (Original) The method of claim 1 wherein the step of analyzing includes preparing a graphical display having as an independent variable the number of instances of the test code and the dependent variable is derived from the performance data.

8.   (Currently amended) The method of claim 1 wherein the application under test is resident on a first server within the network and the application has a remote interface and the test code is resident on at least a second computer within the network and exercises the object oriented software component of the application under test using the remote interface of the application under test.

9.   (Original) The method of claim 1 wherein the step of analyzing includes displaying the analyzed data to a human user using a graphical user interface.

10.   (Currently amended) A method of testing a technology based object oriented software component of a computerized application under test that allows simultaneous users over a computer network, the method comprising the steps of:

    a)   specifying test conditions through a user interface to a test system;

    b)   initiating, across a network, through a user interface to the test system the gathering of test data on the performance of at least one technology based object oriented software component of the application under test at a plurality of load conditions, the load conditions including simultaneously

running a plurality of instances of test code automatically generated from
analysis of the technology based software component;

c)   specifying through a user interface to the test system the output format of
the test data; and

d)   displaying in the specified format the response of said at least one technology
based object oriented software component of the application under test to
load.

11.   (Original) The method of claim 10 wherein the specified format is a graphical
format indicating response time as a function of load conditions.

12.   (Original) The method of claim 11 wherein the specified graphical format is a Hi-
Lo plot.

13.   (Original) The method of claim 11 wherein the step of gathering data under a
plurality of load conditions comprises initiating the execution of a plurality of copies of a
test program, with the number of copies executing simultaneously relates to the load
condition.

14.   (Original) The method of claim 13 wherein the step of specifying an output
format includes specifying a method by which response is measured.

15.   (Original) The method of claim 13 wherein the step of gathering test data
includes recording the execution time between selected points in the test program for
each simultaneously executing copy of the test program and analyzing the recorded
execution times for all copies of the test program.

16.   (Original) The method of claim 15 wherein the step of analyzing comprises
determining the average and maximum execution times for each of the load conditions.

17.   (Original) The method of claim 10 wherein:

a)   the computerized application under test comprises software resident on a server controlling access to a computerized database;

b)   the server is connected to a network and the application under test is simultaneously accessed by a plurality of clients over the network; and

c)   the test system is resident on at least a second server connected to the network.

18.   (Currently amended) A method of testing a technology based <u>object oriented</u> software component of a computerized application under test that allows simultaneous users over a computer network, the application under test having a plurality of technology based <u>object oriented </u>software components, the method comprising the steps of:

a)   providing test code automatically generated from analysis of the technology based <u>object oriented </u>software component to exercise a selected technology based <u>object oriented </u>software component;

b)   creating a first plurality of copies of the test code;

c)   simultaneously executing the first plurality of copies of test code while recording times between events in each of the first plurality of copies of test code, wherein said test code accesses said technology based <u>object oriented </u>software component over the computer network;

d)   creating a second plurality of copies of test code,

e)   simultaneously executing the second plurality of copies of test code while recording times between events in each of the second plurality of copies of test code;

f)   repeating a predetermined number of times the steps of creating plural copies of the test code and simultaneously executing the plural copies while recording event times; and

g)   analyzing the recorded times to present information on the performance of the technology based <u>object oriented </u>software component of the application under test as a function of load.

19.   (Previously cancelled)

20.   (Currently amended) The method of claim ~~19~~18 wherein each <u>object oriented</u>
software component has a plurality of functions therein and the test code exercises
functions of the <u>object oriented</u> software components.

21.   (Original) The method of claim 20 wherein the events at which times are
recorded includes times at which commands are issued to access functions of the
software components and times at which execution of the commands are completed.

22.   (Currently amended) A system for determining performance of a technology
        based <u>object oriented</u> software component of an application under test in response
        to load, the system comprising:

        a)   coordination software;

        b)   at least one code generator, receiving as an input commands from the
               coordination software and having as an output client test code
               automatically generated from analysis of the technology based <u>object
               oriented</u> software component;

        c)   at least one test engine, receiving as an input commands from the
               coordination software, the test engine comprising a computer server
               having a plurality of threads thereon, each thread <u>simultaneously</u>
               executing an instance of the client test code, wherein said client test code
               accesses said technology based <u>object oriented</u> software component over a
               computer network;

        d)   at lease one data log having computerized memory, the memory holding
               timing data created by the instances of the client test code in the plurality
               of threads; and

        e)   at least one data analyzer software, operatively connected to the data log,
               having an output that represents performance of the technology based

object oriented software component of the application under test in response to load.